- providing the first electrode grid with electrodes arranged so as to be linear, but forming an arc along a portion thereof when needed to move around an aperture in the touchpad substrate; and
- (2) providing the second electrode grid with electrodes arranged so as to be linear, but forming an arc along a portion thereof when needed to move around an aperture in the touchpad substrate.
- **58.** The method as defined in claim 57 wherein the method further comprises the step of utilizing offset values in the electronic circuits of the impedance sensing means in order to compensate for arcs in the first electrodes or the second electrodes, to thereby accurately determine a location of a finger in proximity of the impedance sensing means.
- **59.** The method as defined in claim 58 wherein the method further comprises the step of utilizing offset values in the electronic circuits of the impedance sensing means in order to compensate for non-uniform spacing between the first electrodes, and to compensate for non-uniform spacing between the second electrodes.

- **60.** The method as defined in claim 59 wherein the method further comprises the step of providing touchpad functionality including scrolling, tapping, double-tapping, and cursor control.
- 61. The method as defined in claim 60 wherein the method further comprises the step of providing a second impedance sensing means disposed therein, wherein the second impedance sensing means has limited touchpad functionality.
- **62**. The method as defined in claim **61** wherein the method further comprises the step of providing scrolling functionality in the second impedance sensing means.
- 63. The method as defined in claim 62 wherein the method further comprises the step of selecting the portable electronic appliance from the group of portable electronic appliances including mobile telephones, personal digital assistants (PDAs), laptop computers, and tablet personal computers (PCs).

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